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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	1.7700		
09/893,803	06/28/2001		ATTORNEY DOCKET NO.	CONFIRMATION NO	
		Bharath Rangarajan	F0660	7099	
	90 12/03/2002				
Himanshu S. A			f=====================================		
Amin & Turocy	, LLP		EXAMINER ROSENBERGER, RICHARD A		
National City Co	enter				
1900 E. 9th Street, 24th Floor Cleveland, OH 44114				Thouast, Ideliand A	
Cieveland, On	44114		ART UNIT	PAPER NUMBER	
			2877		
			DATE MAILED: 12/03/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	A cant(s)			
	09/893,803	RANGARAJAN ET AL.			
Office Action Summary	Examiner	Art Unit			
	Richard A Rosenberger				
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with	h the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a recent of 1 NO period for reply is specified above, the maximum statutory perions are period for reply within the set or extended period for reply will, by statused and the period for reply will, by statused and period for reply will. Status Status	1.136(a). In no event, however, may a rep oply within the statutory minimum of thirty of d will apply and will expire SIX (6) MONT!	oly be timely filed (30) days will be considered timely.			
1) Responsive to communication(s) filed on 09	Octobor 2000				
20\ This = 10					
3) Since this application is in condition for allow	his action is non-final.				
Since this application is in condition for allow closed in accordance with the practice unde Disposition of Claims	vance except for formal matte r <i>Ex parte Quayle</i> , 1935 C.D.	rs, prosecution as to the merits is 11, 453 O.G. 213.			
4) ☐ Claim(s) <u>1-14</u> is/are pending in the applicatio	n.				
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.	23noidoration,				
6) ☐ Claim(s) <u>1-14</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	or election requirement.				
Phication Papers					
9) The specification is objected to by the Examine	er.				
10) The drawing(s) filed on is/are: a) accep	pted or b) objected to by the	Examiner.			
Applicant may not request that any objection to the	e drawing(s) he held in chavener	0 07 0			
The proposed drawing correction filed on	_is: a) approved b) disa	oproved by the Examiner.			
a prior od, corrected drawings are required in rep	DIV to this Office action				
12) The oath or declaration is objected to by the Excitority under 35 U.S.C. SS 440 and 1993	aminer.				
iority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 11	9(a)-(d) or (f).			
WILL All DILL Some "C) None of:		• • • •			
1. Certified copies of the priority documents	s have been received.				
2. Certified copies of the priority documents	have been received in Applic	cation No.			
application from the International Bus	ty documents have been rece	eived in this National Stage			
* See the attached detailed Office action for a list of the standard of a claim for democracy and the standard of a claim for democracy of the standard of a claim for democracy of the standard of the standa	n the certified copies not rece	ived.			
4) Acknowledgment is made of a claim for domestic	priority under 35 U.S.C. § 11	9(e) (to a provisional application).			
a) ☐ The translation of the foreign language prov 5)☐ Acknowledgment is made of a claim for domestic	icional amalia di una				
chment(s)	Priority under 35 U.S.C. §§ 1	20 and/or 121.			
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	4) Interview Summ 5) Notice of Informa — . 6) Other:	ary (PTO-413) Paper No(s) al Patent Application (PTO-152)			
tent and Trademark Office 326 (Rev. 04-01)					

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The restictiction requirement mailed 23 September 2002 has been 1. reconsidered and withdrawn. An action on all of the claims follows.

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all 2. obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ausschnitt (US 5,629,772) in view of the acknowledged prior art of the instant specification and Coronel et al (US 5,658,418).

Ausschnitt teaches regulation of an etch process using optical measurements. The reference at several points mentions that the prior art and then invention USES the measurements for "control" of the process, for example, the abstract, line 13 and column 4, lines 51-54. The references at several points mentions such control is usable with etching, for example column 1, line 7 and column 7, line 41. The reference discloses optical measurements, for example column 8, line 7 and column 9, lines 27-35.

The instant specification notes that scatterometry a known optical technique for such measurements; see page 12, lines 12-16.

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In general, it is known that optical measurements in etching processes can be made in situ for control of the etching process; see Coronel et al, column 17, lines 53-58. Although Coronel et al does not show a scatterometer as the optical measuring apparatus, it does show that it is known to use optical measurements to monitor and control etching, and it would have been obvious to use other known types of optical measurements for such monitoring.

The reference discloses partitioning the wafer into a plurality of regions (see figure 10), etching features in at least one of the portions, measuring the etched features using optical measurements, and controlling the etching to regulate the etching.

- 4. Papers related to this application may be submitted to Group 2800 by facsimile transmission. The faxing of such papers must conform to the notice published in the Official Gazette, 1096 OG 30 (15 November 1989). The fax number is (703) 308-7722.
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to R. A. Rosenberger whose telephone number is (703) 308-4804.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0956.

R. A. Rosenberger 27 November 2002

Richard A. Rosenberger Primary Examiner